

8X Professional HVAC Controller

With over 24 years in the industry, Computrols has established a solid reputation as a leader in automation systems, from hardware to software. When it comes to controlling large heating, ventilation, and air-conditioning systems, our Professional line of controllers are the best in the business. For applications requiring eight points or less, our 8X controller is the right choice.

Product Highlights

4-in-1 Points

Any point can be configured through software to be Analog In, Analog Out, Binary In, or Binary Out – no jumpers.

Large Screw Terminals

No special screwdrivers – simple secure terminations.

Status Indicators

Bright on-board LEDs assist in troubleshooting.

On-Board Web Server

Directly connect a normal web browser for simple management.

10 Mbps Ethernet Port

High speed communications allow the ultimate in flexibility and snappy response.

Easily Addressable

3 decimal rotary switches (0-9) allow simple addressing – no hex, no binary.

UL Listed

Mature product which meets industry standard requirements.

Two-Board Design

All of the electronics are on one easily replaceable brain board for quick repairs.

Lifetime Warranty

Our quality speaks for itself.

Model 8X
 Internet Ready
 Direct Digital Control
Technical Support:
 504-529-1413

100's 10's 1's
 Serial Communication

Run (blinking=normal)
 10Mbps Activity
 Port 2 Receive
 Port 2 Transmit
 Port 2 Activity

Power
 10Mbps Link
 Port 1 Receive
 Port 1 Transmit
 Port 1 Activity

UL LISTED
 OPEN ENERGY MANAGEMENT
 EQUIPMENT ALSO LISTED AS
 PROCESS CONTROL EQUIPMENT
 (PCE)
 #18008 MODEL 8X JANUARY 2004
 Input: 24 VAC, Class 2, 4.0VA
 Output: 24 VAC, 2.0VA
 Power: 24 VAC, 2.0VA

ENERGY SAVING DEVICE

Communication
 RS485 Communication
 18AWG, Twisted,
 Stranded, Shielded Wire

Binary Output
 24 VDC Output
 50 mA Maximum Current

Binary Input
 Normally Open or
 Normally Closed dry contact

Analog Output
 0-10 VDC Output
 (Software scalable)

Analog In Temperature
 10K Type III Thermistor

Resistance
 1K, 10K, 20K, or 100K
 variable resistance

Voltage
 0-10 VDC
 (software scalable)

Current
 4-20 mA
 (software scalable)

Power
 You must supply a
 24VAC Class II transformer to
 power the controller.

Part 1 used for
 host channel.
 Part 2 used for
 secondary channel.

Used for pilot relays for
 general two position control.

Used for differential pressure
 switches, auxiliary contact, etc.

Used for control
 dampers, valves,
 VFD's, actuators, etc.

Used for measuring temperature -
 duct space, etc.

Used for measuring resistance -
 potentiometers, RTD's, etc.

Used for transducers, etc.

Used for transducers, etc.

The transformer size must be
 at least 50 VA, plus the
 requirements of all connected
 devices.
 † WARNING: Use 24 VDC for transducers
 only, and use 24 VAC to power all actuators

COMPUTROLS
 HAND-HELD

RS-232

RS485 PORT 1

RS485 PORT 2

SHIELD

SHIELD

COMMO:

1

2

3

4

5

6

7

8

24V

24VAC

POWER

4-20mA
 >24VDC LOOP
 SOURCE

3-WIRE AC
 24 VAC
 2.0VA
 3-WIRE DC
 24 VDC
 2.0VA
 2-WIRE
 24 VDC
 2.0VA

3-WIRE DC or AC
 24 VDC
 2.0VA
 2-WIRE
 24 VDC
 2.0VA

4-20mA
 LOOP
 SOURCE

4-20mA
 devices only

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Specifications	
Software Compatibility	Works with all versions of CBAS: Professional, Commercial, and Utility.
Power Requirements	50VA @ 24 Vac 50/60 Hz Class 2 transformer
Point Configuration	All points software configurable as analog inputs, binary inputs, analog outputs, or binary outputs.
Analog Output Specifications	0-10 Vdc voltage type
Binary Output Specifications	24 Vdc @ 50 mA
Analog Input Specifications	10K Ohm TYPE III thermistor 0-10 Vdc 4-20 mA 0-32K Ohm resistive (scalable)
Binary Input Specifications	Dry contact - switch closure Pulse dry contact 5Hz max repetition rate, 100 msec (min) pulse width
Voltage Protection	250 Vac on each point terminal
Electrical Connections	Barrier terminal block 18 -24 AWG 24 Vdc loop source terminals (160 mA maximum)
Internet Capability	IP addressable on-board web server
Communication Ports	10 Mbps RJ-45 Ethernet TCP/IP, 100 meter maximum distance One RS485 CBAS communication 9600 Baud One RS485 interface port 9600 Baud Local hand held terminal
Microprocessor	Intel 386 25 MHz, 3 MB Flash, 1MB SRAM 2K NVRAM Real time clock with 10 year data retention
Dimensions	6.5" W x 8.375" L x 1.25" H
Mounting	Mount in NEMA rated enclosure
Shipping Weight	5 lbs.
Environmental	32 - 158 Deg. F, 10 - 90 %RH non-condensing
Agency Compliance	E195258 UL 916 (PAZX) Energy Management Equipment Canadian Standard C22.2 No. 205-M1983 E231285 UL 61010C-1 (QUYZ) Electrical Process Control Equipment Canadian Standard C22.2 No. 1010 CE IEC 61010-1 (1990) with Amendments 1 (1992) and 2 (1995)

Parts and Accessories	
Part Number	Description
8X	8 binary or analog points. Controller only - enclosure and transformer required.
8X-NEMA1	8X controller mounted in NEMA 1 indoor enclosure with transformer.
8X-NEMA4X	8X controller mounted in NEMA 4X outdoor enclosure with transformer.
HHT	Hand Held Terminal
ST-D3-XH	10K type duct temperature sensor
ST-S3E	10K type space temperature sensor
ST-S3E-XA	10K type space temperature sensor with setpoint adjustment.
MN-S3-700	LCD room temperature sensor (200 feet maximum distance from controller). <i>Note: requires stat interface board STAT-IFC.</i>
MN-S3HT	Space temperature and humidity sensor. <i>Note: requires stat interface board STAT-IFC.</i>
STAT-IFC	Stat interface board
T-PB202-0	4.0 amp power supply with 120 Vac outlet.
VMD2B-F24D	VMD series 24Vdc relay switch with override switch.
DCM24-44, DM24-53, DM24-280	Direct coupled actuators. Part numbers indicate torque ratings.
VP1	VTP voltage pressure transducer (3-15 PSI)
PV3	Differential pressure transmitter (Specify 0-1", 0-2" or 0-5" W.C.)
H-922	Analog current sensor
H8035/8036 Series	3 phase networked (MODBUS RTU) KW/KWH power meter

